CLAIMS

1 – Process for keeping and/or restoring communications within a network with planned resources, said network comprising at least several stations Si distributed in subgroups, each of the said subgroups comprising at least one or several groups {Gi} each composed of at least two stations Si connected together, the link between these two stations possibly changing with time, wherein it comprises at least the following steps:

within a subgroup,

a) associate a dummy station FGi to a group {Gi}, the dummy station comprising different resources RGi, allocated to stations in the group {Gi},

b) starting from information about how the structure of the group {Gi} changes:

c) set up one or several relays Ri adapted to keep and/or to restore communications between the different elements of the group {Gi},

d) reallocate resources of the dummy station FGi to all relay stations Ri set up.

2 – Process according to claim 1, wherein step d) is made starting from a main station adapted for network design and allocation of resources such as an NCS station.

3 – Process according to either of claims 1 and 2, wherein a relay Ri is used for several groups {Gi}, {Gj} when the resources RGi, RGj are separate.

4 – Process according to either of claims 1 and 2 wherein a station Si associated with the resources RGi not belonging to the group {Gi} is used to receive the resources RGj on a dummy station FGj, when the resources RGi and RGj are separate.

5 – Process according to either of claims 1 and 2 wherein relay stations Ri may be provided with one communication plan for each group {Gi}, and resources of the dummy station may be allocated by local activation..

6 – Process according to any one of the previous claims, wherein step d) to reallocate resources comprises time reallocation steps dedicated to communications of the group {Gi} and/or PG numbers and/or route numbers.

7 – System to keep and/or restore communications within a network with planned resources, the said network comprising at least several stations Si distributed in several subgroups, each of the said subgroups comprising one or several groups {Gi} each comprising at least two stations Si connected to each other, the connection between these two stations possibly varying with time, wherein it comprises at least the following within a subgroup:

- a dummy station FGi in connection with a group {Gi} and comprising resources RGi allocated to stations in the group {Gi},
- a device suitable for determining how the structure of the group changes,
- one or several relays Ri adapted to keep and/or restore communications between the different elements of the group {Gi},
- a device for reallocating resources of the dummy station FGi to all installed relay stations Ri.

8 – System according to claim 7, wherein the device adapted to reallocate resources is a station adapted for network design and for allocation of resources such as an NCS station.

9 – System according to either of claims 7 and 8, wherein the relay stations Ri are provided with one communication plan for each group {Gi}.

10 – Use of the process according to any one of claims 1 to 6 and the system according to one of claims 7 to 9, for deployments of L16 MIDS land networks.